

**TECHNICAL DATA SHEET****Catalog # MS604****MitoProfile<sup>®</sup> Total OXPHOS Rodent WB Antibody Cocktail**

Rev.5

LOT #:

COMPONENTS: 300 µg monoclonal antibody

Antigen	Clone ID	Amount (µg)	Working conc. (µg/mL)	Immunogen
C-I-20 (NDUFB8)	20E9DH10C12	100	2	Bovine Complex I
C-II-30 (FeS)	21A11AE7	125	2.5	Bovine Heart Complex II
C-III-Core 2	13G12AF12BB11	25	0.5	Bovine Heart Complex II, III
C-IV-I	1D6E1A8	25	0.5	Human Complex IV subunit I
C-V-α	15H4C4	25	0.5	Bovine Complex V

APPLICATIONS: Western blotting detection of enzyme purity or for OXPHOS complex deficiency detection.

SPECIES CROSS-RE-ACTIVITY: mouse, rat, human, bovine

HOST SPECIES: Mouse

CONCENTRATION: 1.5 mg/mL in HEPES-Buffered Saline (HBS) with 0.02% azide as a preservative.

SUGGESTED WORKING CONCENTRATION: The antibody cocktail (1.5 mg/mL) should be diluted 250x to a final working concentration of 6.0 µg/mL for Western blotting

mAb PURITY: Near homogeneity as judged by SDS-PAGE. The antibody was produced *in vitro* using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.

STORAGE CONDITIONS: Store at 4°C. Do not freeze.

COUNTRY OF ORIGIN: USA

ADDITIONAL INFO: Accompanied by 50 µg of rat heart mitochondria (MS812) as a Western blotting control sample.

**BACKGROUND:**

Genetic diseases affecting Oxidative Phosphorylation (OXPHOS) occur in around 1 in 7000 live births and are also found amongst the adult population. Analysis of these diseases remains problematic. They can occur through mutations in mitochondrial DNA and also by mutation of the many proteins encoded on nuclear DNA and transported to the mitochondrion to complete the OXPHOS complexes assembly. Presently, initial detection of a likely OXPHOS dysfunction is made by activity measurements of individual OXPHOS complexes as well as ATP levels.

**Note: This product is for research purposes only. It is not to be used in humans or for diagnostic purposes.**

WARRANTY – MitoSciences Inc warrants that products will perform as indicated in the published Technical Data Sheet for 6 months from date of purchase when stored according to specifications and when used consistent with recommended protocols. If you experience results which materially differ from those described, send evidence of the non-performing product for replacement of the original product purchased or a credit toward any other of the company's products or services.